| Inde | ex of Cl | aims |
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| App | lication | /Control | No. |
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10/543,179 Examiner

FISCHER ET AL.

Applicant(s)/Patent under Reexamination

Art Unit

HUNG T. NGUYEN

Non-Elected

2612

| <b>√</b> | Rejected |
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| =        | Allowed  |

(Through numeral) Cancelled

N Restricted Interference

Appeal Α 0 Objected

|  |                  |          | İ   |  |              |              |  |              |  |          |  |  |  |  |
|--|------------------|----------|---|--|--------------|--------------|--|--------------|--|----------|--|--|--|--|
|  | 7                | _        |   |  |              | •            |  |              |  |          |  |  |  |  |
| Cla                                    | im               | ٥١       | O Date  |  |              |              |  |              |  |          |  |  |  |  |
|  |                  |          |   |  |              |              | Î  | Γ            | Г  | П        |  |  |  |  |
| <del></del>                            | Original         | =        | -   |  |              |              |  |              |  |          |  |  |  |  |
| Final                                  | ij               | <u></u>  | ļ.  |  |              |              |  |              | ĺ  |          |  |  |  |  |
| ш                                      | ō                | 4        |   |  |              |              | 1  |              |  |          |  |  |  |  |
|  |                  | _        | _   | <u> </u>   | <u>L</u>     | <u> </u>     | <u> </u>   | <u> </u>     | <u>L</u>   |          |  |  |  |  |
|  | 1<br>2<br>3<br>4 |          |   | L  |              |              |  | <u> </u>     |  |          |  |  |  |  |
|  | 2                | 1        |   |  |              |              |  | Г            |  |          |  |  |  |  |
|  | 3                |          |   |  | Г            | Т            | Г  |              |  |          |  |  |  |  |
|  | 4                |          |   | $\vdash$   | -            | t            |  | 1            | <del>                                     </del> | Н        |  |  |  |  |
|  | 5                |          |   | -  | ┢            | ┢            | -  | ┢╌           | ├─   | Н        |  |  |  |  |
|  | 5<br>6<br>7      |          |   |  | <del> </del> | <del> </del> | -  | ├-           | ├—   | Н        |  |  |  |  |
|  | 0                | _        |   | L  |              | -            |  | <u> </u>     | ┡  | Ш        |  |  |  |  |
|  | _7_              | _        | $ldsymbol{ley}}}}}}}$ |  |              | <u> </u>     | _  | _            |  | Ш        |  |  |  |  |
|  | 8<br>9<br>10     | -        |   |  |              |              |  |              |  |          |  |  |  |  |
|  | 9                | -        |   |  |              |              |  |              |  |          |  |  |  |  |
|  | 10               | _        |   |  |              |              |  |              |  | П        |  |  |  |  |
| 1                                      | 11               | Ħ        | $\vdash$  |  |              |              | ı  | t            | <u> </u>   | ┌┤       |  |  |  |  |
| <del>  </del>                          | 11<br>12<br>13   | =        | _   | <del>  -                                    </del> | $\vdash$     | <del> </del> | <del>                                     </del> | $\vdash$     | $\vdash$   | Н        |  |  |  |  |
| -                                      | 12               | -        |   | $\vdash$   |              | $\vdash$     | $\vdash$   | $\vdash$     | $\vdash$   | Н        |  |  |  |  |
| 3                                      | 13               | =        |   | $\vdash$   | -            |              | <del> </del>                                     | -            | ļ  | Ш        |  |  |  |  |
| 1<br>2<br>3<br>4<br>5                  | 14<br>15<br>16   | =        |   | <u> </u>   | <u> </u>     | _            | <u> </u>   | _            | ļ  | ╙        |  |  |  |  |
| 5                                      | 15               | =        |   |  |              | $oxed{oxed}$ |  | L            | L  | ╙        |  |  |  |  |
| 6                                      | 16               | =        |   |  |              |              |  |              |  |          |  |  |  |  |
| 6<br>7                                 | 17<br>18         | =        |   | Ι  | <u> </u>     |              |  | П            |  | П        |  |  |  |  |
| 8                                      | 18               | ┰        |   | $\vdash$   | $\vdash$     |              |  | $\vdash$     | <b>†</b>   | П        |  |  |  |  |
| 9                                      | 10               | =        | _   |  |              | ├─           | -  | $\vdash$     | <del> </del>                                     | Н        |  |  |  |  |
| 40                                     | 19<br>20<br>21   | -        |   | ├  | ├            | ⊢            | ⊢  | $\vdash$     | -  | Н        |  |  |  |  |
| 10                                     | 20               | =        |   | <u> </u>   | _            | ┞            | _  | _            | _  | Щ        |  |  |  |  |
| 11                                     | 21               | =        |   | _  |              |              |  |              | <u> </u>   | Ш        |  |  |  |  |
| 12                                     | 22               | =        |   |  |              |              |  |              | <u> </u>   |          |  |  |  |  |
| 11<br>12<br>13<br>14<br>15<br>17<br>18 | 22<br>23         | =        |   |  |              |              |  |              |  |          |  |  |  |  |
| 14                                     | 24               | =        |   |  |              |              |  |              |  | П        |  |  |  |  |
| 15                                     | 25               | =        |   | _  |              |              |  |              | T  |          |  |  |  |  |
| 17                                     | 26               | _        |   |  |              | ┢            | <del>                                     </del> | -            | <del> </del>                                     | Н        |  |  |  |  |
| 10                                     | 25<br>26<br>27   |          |   |  | $\vdash$     | -            | -  | -            | <u> </u>   | $\vdash$ |  |  |  |  |
| 10                                     | 21               | =        |   |  | _            | _            |  | $\vdash$     | <u> </u>   | $\vdash$ |  |  |  |  |
| 16                                     | 28<br>29         | =        |   |  | _            |              | _  | _            | <u> </u>   | Ш        |  |  |  |  |
|  | _29_             | Ш        |   |  |              | _            |  |              |  | Ш        |  |  |  |  |
|  | 30               |          |   |  |              |              |  |              |  |          |  |  |  |  |
|  | 31               |          |   |  |              |              |  |              |  |          |  |  |  |  |
|  | 32               |          |   |  |              | 1.           |  |              | $\Box$   | П        |  |  |  |  |
|  | 33               | H        | -   | _  |              | Н            | Н  | $\vdash$     | $\vdash$   |          |  |  |  |  |
|  | 33<br>34         |          |   |  | <u> </u>     | ⊢            | $\vdash$   | $\vdash$     | $\vdash$   |          |  |  |  |  |
| -                                      | 35               | $\vdash$ |   |  | <u> </u>     | _            | <b>-</b>   | -            | -  | Н        |  |  |  |  |
|  | 33               |          |   |  | -            | <u> </u>     |  | <del> </del> | <u> </u>   | Ш        |  |  |  |  |
|  | 36               |          |   |  | <u> </u>     | <u> </u>     | <u> </u>   | <u> </u>     | <u> </u>   | Ш        |  |  |  |  |
|  | 37               |          |   |  |              | <u> </u>     |  | <u> </u>     | Ш  | Ш        |  |  |  |  |
|  | 38               |          |   |  |              |              | L  | L            | L  | Ш        |  |  |  |  |
|  | 39               |          |   |  |              |              |  |              | _  |          |  |  |  |  |
|  | 40               |          |   |  |              |              |  |              |  |          |  |  |  |  |
|  | 41               |          |   |  |              |              |  |              |  | $\vdash$ |  |  |  |  |
| -+                                     | 42               | -        |   | -  |              | $\vdash$     | $\vdash$   | $\vdash$     |  | $\dashv$ |  |  |  |  |
|  | 42               | $\dashv$ | _   |  |              | $\vdash$     | _  |              | -  | Н        |  |  |  |  |
|  | 43               | $\vdash$ | _   |  |              | <u> </u>     | _  | <u> </u>     | <u> </u>   | Ш        |  |  |  |  |
|  | 44               | Ш        |   |  |              |              |  | L            | L  | Ш        |  |  |  |  |
| T                                      | 45               | [        |   |  | L ]          | LĪ           | LÌ   | L            | L  |          |  |  |  |  |
|  | 46               |          |   |  |              |              |  |              |  |          |  |  |  |  |
|  | 47               | _        | $\neg$  |  |              | Т            |  |              | $\vdash$   | $\dashv$ |  |  |  |  |
|  | 48               | $\vdash$ | -   |  |              | $\vdash$     | $\vdash$   | $\vdash$     | _  | $\dashv$ |  |  |  |  |
|  |                  | $\dashv$ |   |  |              |              | -  | -            | -  | $\vdash$ |  |  |  |  |
|  | 49               | _        | _   |  |              | $\vdash$     |  |              |  | Щ        |  |  |  |  |
|  | 50               |          |   |  |              | 1            |  |              |  |          |  |  |  |  |

| Cla      | aim       |  | _              |  |          | Date           | e            |          |             |              |
|----------|-----------|--|----------------|--|----------|----------------|--------------|----------|-------------|--------------|
| Final    | Original  |  |                |  |          |                |              |          |             |              |
|          | 51<br>52  |  | _              |  |          |                |              |          |             |              |
|          | 52        |  |                |  |          |                |              |          |             |              |
|          | 53        |  |                |  |          |                |              |          |             |              |
|          | 54        | L  | _              |  | _        | _              | _            |          |             |              |
| <u> </u> | 55        | ļ  | _              |  | _        |                | _            |          |             |              |
|          | 56        |  | _              | _  |          | _              | _            | <u> </u> |             |              |
|          | 57<br>58  | ├  | -              | ├-   | <u> </u> | <u> </u>       |              | _        |             | _            |
|          | 59        | ⊢  | ⊢              | -  |          | -              | ├-           |          |             |              |
|          | 60        | ⊢  | $\vdash$       | ⊢  | $\vdash$ | ⊢              | $\vdash$     |          | ├           | ├            |
|          | 61        | $\vdash$   |                | ├-   | $\vdash$ |                | -            |          |             | ┢            |
|          | 62        | 1-   | <u> </u>       |  |          |                |              |          |             |              |
|          | 63        |  |                |  |          |                |              |          |             |              |
|          | 64        |  |                | <del>                                     </del> |          |                |              |          |             |              |
|          | 65        |  |                |  |          |                |              |          |             |              |
|          | 66        |  |                |  |          |                |              |          |             |              |
|          | 67        | _  |                |  | <u> </u> |                | <u> </u>     |          |             |              |
|          | 68        |  | L.             | _  | _        |                | L            |          | <u> </u>    |              |
| <u> </u> | 69        | ļ  | <u> </u>       | <u> </u>   | <u> </u> |                | _            |          |             |              |
| ļ        | 70        |  | <u> </u>       | <u> </u>   |          |                | <u> </u>     |          | <u> </u>    | <u> </u>     |
|          | 71<br>72  | _  | <del> </del>   |  | <u> </u> | <u> </u>       | L            |          | <u> </u>    | <u> </u>     |
| <u> </u> | 72        | $\vdash$   |                | _  |          |                | $\vdash$     |          | <u> </u>    | <del> </del> |
|          | 73        | <del> </del>                                     | <del> </del>   | <del> </del>                                     | -        | ┢              | H            | -        | <u> </u>    | ┢            |
|          | 74<br>75  | $\vdash$   | $\vdash$       | ⊢  | $\vdash$ | $\vdash$       |              | $\vdash$ | $\vdash$    |              |
|          | 76        | $\vdash$   | $\vdash$       | $\vdash$   | -        | <del>  -</del> |              | $\vdash$ | $\vdash$    | $\vdash$     |
|          | 77        |  |                |  |          |                | <u> </u>     | -        | -           | -            |
|          | 78        |  |                |  |          |                |              | _        |             |              |
|          | 79        |  |                |  |          |                |              |          |             |              |
|          | 80        |  |                |  |          |                |              |          |             |              |
|          | 81        |  |                |  |          |                |              |          | _           |              |
|          | 82        |  |                |  |          | <u> </u>       |              | L.       |             |              |
|          | 83        |  |                |  |          |                | L            |          |             |              |
| <u> </u> | 84        |  | <u> </u>       | _  |          |                | <u> </u>     | <u> </u> | _           | <u> </u>     |
|          | 85<br>86  |  | <u> </u>       |  | _        | <u> </u>       |              | -        |             | _            |
|          | 87        | _  |                |  |          |                | _            |          |             | $\vdash$     |
| <u> </u> | 88        | ┢  |                |  |          | -              | <del> </del> | -        |             | -            |
|          | 89        | $\vdash$   | <del> </del> — | $\vdash$   |          | <del> </del>   |              | H        |             | $\vdash$     |
|          | 90        | <del>                                     </del> | $\vdash$       | $\vdash$   |          | H              |              | Н        | <del></del> |              |
|          | 91        |  | Γ-             | $\vdash$   |          |                |              |          |             |              |
|          | 92        |  |                |  |          |                |              |          |             |              |
|          | 93        |  |                |  |          |                |              |          |             |              |
|          | 94        |  |                |  |          |                |              |          |             |              |
|          | 95        |  |                |  |          |                | L            |          |             |              |
|          | 96        | L.   | <u> </u>       | L  | L        | _              |              |          |             | <u> </u>     |
|          | 97        |  | <u> </u>       |  | _        | $\vdash$       | <u> </u>     |          |             |              |
|          | 98        |  | <u> </u>       | _  |          |                | _            | $\vdash$ |             |              |
| <u> </u> | 99<br>100 | _  | _              |  |          |                | _            | H        |             |              |
|          |           |  |                |  |          |                |              |          |             |              |

|          | _        |          |              |                |                | J  | _            |               |          |  |     |       | l          | Ш               |          |          |     |              |  |  | ı            |                 |
|----------|----------|----------|--------------|----------------|----------------|--|--------------|---------------|----------|--|-----|-------|------------|-----------------|----------|----------|-----|--------------|--|--|--------------|-----------------|
| Cla      | im       | -        |              |                |                | 7-1-   |              |               |          |  | ]   | C1/   | aim        | T               |          |          |     | ) n+         |  |  |              | $\neg$          |
| Ula      | 11511    | -        | _            |                | - 1            | <u>Date</u>                                      |              | _             | T        |  |     | Uli   | aim        | -               |          |          | - 1 | Date         |  | _  |              | $\dashv$        |
| Final    | Original |          |              |                |                |  |              |               |          |  |     | Final | Original   |                 |          |          |     |              |  |  |              |                 |
|          | 51       |          |              |                |                |  |              |               |          |  | ]   |       | 101        |                 |          |          |     |              |  |  |              |                 |
|          | 52       |          |              |                |                |  |              |               |          |  |     |       | 102        |                 |          |          |     |              |  |  |              |                 |
|          | 53       | <u> </u> |              |                |                |  |              |               | <u> </u> |  |     |       | 103        |                 |          |          |     |              |  |  |              |                 |
|          | 54       | L        | _            |                |                |  |              |               |          |  | ]   |       | 104        |                 |          |          |     |              |  |  |              |                 |
|          | 55       | <u> </u> |              |                |                |  |              |               | L        |  |     |       | 105        |                 |          |          |     |              | _  |  |              |                 |
|          | 56       |          |              | _              |                |  |              | L.            |          |  |     |       | 106        |                 |          |          |     | _            | _  |  |              |                 |
|          | 57       |          |              | L_             | _              |  |              |               |          |  |     |       | 107        |                 |          |          |     |              |  |  |              |                 |
|          | _58      |          | _            | L              | _              | <u> </u>   | _            |               | Щ        | $oxed{oxed}$                                     |     |       | 108        | Ш               |          |          |     |              | _  |  |              |                 |
|          | 59       | _        | _            | _              | _              |  | _            |               | L_       | <u> </u>   |     |       | 109        | Ш               | _        | _        |     |              | <u> </u>   |  | _            |                 |
|          | 60       | <u> </u> | <u> </u>     | <u> </u>       | _              | _  |              |               | _        | <u> </u>   |     |       | 110        | Ш               | _        |          |     | _            |  |  |              | _               |
|          | 61       | ļ        | <u> </u>     | <u> </u>       | _              |  | <u> </u>     | <u> </u>      | <u> </u> | <u> </u>   |     |       | 111        | Щ               | _        | _        |     | ļ            | <u> </u>   | <b> </b>   |              | Ш               |
|          | 62       | <u> </u> | <u> </u>     | <u> </u>       | <u> </u>       | <u> </u>   | _            | <u> </u>      | <u> </u> | <u> </u>   |     |       | 112        | Ц               | _        | _        |     | <u> </u>     | <u> </u>   | ــــا  | <u> </u>     | Щ               |
|          | 63       | <u> </u> | <b> </b>     |                | ├-             | <del>  -</del>                                   | <u> </u>     | _             | <u> </u> | <u> </u>   |     |       | 113        | $\sqcup$        | _        | _        | _   |              | $\vdash$   | ₽  | $\vdash$     | Ш               |
| _        | 64       |          |              | ⊢              | <del>  -</del> |  | <u> </u>     |               | _        | ļ.—  | ļ   |       | 114        |                 | _        | _        | _   | <u> </u>     | <u> </u>   | Ш  | _            | -               |
| _        | 65       | ├        | -            | ⊢              | ├-             | ⊢  | ⊢            |               | ├        | ├  | 1   |       | 115        | $\vdash$        |          | _        |     |              | -  | اـــا  | <del> </del> | $\vdash \vdash$ |
| _        | 66       |          |              | $\vdash$       | ├-             |  |              | $\vdash$      | $\vdash$ | $\vdash$   |     |       | 116        | $\vdash \vdash$ | $\dashv$ |          |     |              | $\vdash$   | H  | $\vdash$     | -               |
|          | 67<br>68 |          | ├—           | <del> </del> — | -              | <del> </del>                                     | <del> </del> | -             | $\vdash$ | $\vdash$   |     |       | 117<br>118 | $\vdash \vdash$ |          | -        |     | <u> </u>     | ⊢  | $\vdash$   | $\vdash$     | $\vdash$        |
| -        |          |          |              | ├-             | -              |  | ├-           |               | ⊢        | ⊢  | -   |       |            | Н               | $\dashv$ | -        |     | <del> </del> | ├  |  | -            |                 |
|          | 69<br>70 |          | <u> </u>     | <del> </del>   | -              | <del> </del>                                     | ├—           |               | ⊢        | ⊢  |     |       | 119<br>120 | $\vdash\vdash$  | $\dashv$ | _        |     | _            | <b>—</b>   | -  | H            | -               |
|          | 71       |          | <u> </u>     | ├—             | -              | -  | ⊢            |               | $\vdash$ | $\vdash$   | -   |       | 121        | $\vdash$        | $\dashv$ | _        | _   | _            |  | $\vdash$   | Н            | -               |
|          | 72       |          |              |                | -              | ├  | -            |               | -        | -  | ł   |       | 122        | H               | $\dashv$ | -        |     |              | 1  | H  | H            |                 |
|          | 73       | _        | _            | _              |                | $\vdash$   | -            |               | -        | <del> </del>                                     | ł   |       | 123        |                 |          | -        | _   |              |  |  | -            | $\vdash$        |
| _        | 74       | ├—       | <del> </del> | <del> </del>   | -              | ┢  | -            | -             | ┢        | ┢  | 1   |       | 124        |                 |          | -        |     | -            | -  |  |              |                 |
|          | 75       | _        | -            | $\vdash$       | $\vdash$       | ⊢  | -            |               | ⊢        |  | 1   |       | 125        | $\vdash$        | ᅱ        |          |     | $\vdash$     |  |  | -            | $\dashv$        |
| $\dashv$ | 76       | $\vdash$ | $\vdash$     | -              | -              | ├  |              | ├             | ├        | ⊢  | 1   |       | 126        | H               | ┥        | -        | _   | <del> </del> | ⊢  | <del> </del>                                     | $\vdash$     | $\dashv$        |
|          | 77       | $\vdash$ | $\vdash$     | $\vdash$       | -              | -  |              |               |          |  | 1   |       | 127        |                 |          |          |     |              | ├  | H  | $\vdash$     |                 |
|          | 78       |          |              |                | -              | ┢╌   | -            |               |          |  | 1   |       | 128        | -               | ┰        | $\dashv$ |     |              | $\vdash$   | H  | $\vdash$     | Н               |
|          | 79       | -        |              | -              |                | $\vdash$   |              | $\vdash$      | $\vdash$ | $\vdash$   |     |       | 129        | $\vdash$        | $\dashv$ | $\dashv$ | _   | $\vdash$     | $\vdash$   |  | $\vdash$     | $\dashv$        |
| $\dashv$ | 80       | -        |              | -              | _              | -  | <u> </u>     | ┢             | ┢        | -  | 1   |       | 130        | $\vdash$        | -        | $\dashv$ |     |              |  | H  | -            | $\dashv$        |
|          | 81       |          | $\vdash$     |                |                | $\vdash$   | $\vdash$     | $\vdash$      | $\vdash$ | $\vdash$   |     |       | 131        | $\vdash$        | $\dashv$ | $\dashv$ | _   | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$     | $\dashv$        |
| $\dashv$ | 82       |          |              |                |                | $\vdash$   | $\vdash$     | <del> -</del> | -        |  |     |       | 132        | -               |          | $\dashv$ |     | <del> </del> |  | -  | $\vdash$     | $\vdash$        |
|          | 83       |          | <u> </u>     | $\vdash$       |                | $\vdash$   | $\vdash$     | ┝             | -        | <del> </del>                                     |     |       | 133        | $\vdash$        | -        |          |     | -            | <del>                                     </del> | <del>                                     </del> | $\vdash$     | $\vdash\vdash$  |
| $\dashv$ | 84       | $\vdash$ |              |                |                | $\vdash$   | $\vdash$     | $\vdash$      |          |  |     |       | 134        | Н               | $\dashv$ | -        | _   | H            | $\vdash$   | $\vdash$   |              | $\vdash \vdash$ |
| $\dashv$ | 85       |          | $\vdash$     | $\vdash$       | <del> </del>   | <del>                                     </del> | $\vdash$     | Η-            | $\vdash$ | $\vdash$   |     |       | 135        |                 | $\dashv$ | -        | 7   | -            |  |  |              | $\vdash \vdash$ |
|          | 86       |          | $\vdash$     |                | $\vdash$       | $\vdash$   |              | $\vdash$      | $\vdash$ | Н  |     |       | 136        |                 | $\dashv$ | 1        |     | $\vdash$     | $\vdash$   |  | H            | $\vdash$        |
|          | 87       |          | <u> </u>     |                |                | _  |              | H             |          |  | 1   |       | 137        | H               | $\dashv$ | -        |     | $\vdash$     |  | Г  | Н            | $\neg$          |
|          | 88       | Г        |              |                |                | T  | _            | _             | H        | t  | 1   |       | 138        | H               | 寸        | $\dashv$ |     |              | t  | М  | Н            | $\sqcap$        |
|          | 89       | П        |              | Г              | $\Box$         |  | П            | Г             |          |  |     |       | 139        | $\Box$          | $\neg$   |          |     | Г            | Г  | П  | П            | $\sqcap$        |
|          | 90       |          | $\Box$       | $\vdash$       |                | Г  | П            |               | ┌┈       | <del>                                     </del> |     |       | 140        | $\Box$          | $\neg$   |          |     | Ι            | <del>                                     </del> |  | М            | $\sqcap$        |
|          | 91       |          |              | Г              |                |  |              |               |          |  |     |       | 141        | П               | $\neg$   |          |     | Г            | $\vdash$   | Г  |              |                 |
|          | 92       |          |              |                | П              | Г  |              |               |          |  |     |       | 142        | $\Box$          | $\neg$   | $\neg$   |     |              | 1  |  |              |                 |
|          | 93       |          |              |                |                |  |              |               |          |  |     |       | 143        |                 |          |          |     |              |  |  |              |                 |
|          | 94       |          |              |                |                |  |              |               |          |  |     |       | 144        |                 | $\neg$   |          |     |              |  |  |              |                 |
|          | 95       |          |              |                |                |  |              |               |          |  | ] ] |       | 145        |                 | 〓        |          |     |              |  |  |              |                 |
|          | 96       |          |              |                |                |  |              |               |          |  |     |       | 146        |                 |          |          |     |              |  |  |              |                 |
|          | 97       |          |              |                |                |  |              |               |          |  |     |       | 147        |                 |          |          |     |              |  |  |              |                 |
|          | 98       |          |              |                |                |  |              |               | L        |  |     |       | 148        |                 | $\Box$   |          |     |              |  |  |              |                 |
|          | 99       |          |              |                |                |  |              |               |          |  |     |       | 149        |                 |          |          |     |              |  |  |              |                 |
|          | 100      |          |              |                |                |  |              |               |          |  |     |       | 150        |                 |          |          |     |              |  |  |              |                 |
|          |          |          |              |                |                |  |              |               |          |  |     |       |            |                 |          |          |     |              |  |  |              |                 |